

Tender specifications CRAFT collection

Supply of Panaria USA porcelain stoneware tiles for walls and floors.

Product characteristics

Panaria USA full body porcelain stoneware tiles, glazed, composed of a very fine mixture of quality clay with the addition of feldspar, quartz and kaolin, manufactured by dry pressing of atomized powders and subsequently sintered by industrial firing at temperatures above 1200°C.

The complete vitrification of the tiles allows for a compact, non-absorbent, frost-proof product, resistant to bending, impacts, staining, chemical attack and thermal shock.

Compliance with ANSI A 137.1

The Craft collection is in compliance with the regulations required for first quality products in USA ANSI A137.1 – Table 10: Porcelain tile.

Quality and environmental certifications

The collection helps to meet the criteria for obtaining LEED credits. The content of "pre-consumer" recycled material is 40%, as certified by a qualified external body (LEED V4 Regulations - MR Credit). The product contains no VOC (volatile organic compounds) and has obtained the GREENGUARD GOLD certification. The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the Bluestone Evolution collection based on its Craft Cycle Assessment (LCA).

The collection is certified by Green Squared, a TCNA initiative aimed to recognize and certify sustainable products according to the ANSI 138.1 law.

Antibacterial properties

Thanks to Protect antibacterial technology, the tiles from the Craft collection have continuous, effective and durable protection against the proliferation of bacteria, tested and certified in accordance with ISO 22196 and ASTM E3031.

Commercial description of the product	
Company	PANARIA USA
Country of origin	USA
Collection	CRAFT
Colours	Cotton, Yarn, Rope, Wool, Quilt
Nominal Sizes	12" x 24" RECT 24" x 48" RECT
Surface Finish	GLAZE
Surfaces Processing	NATURAL
Edges	RECTIFIED (RECT)
Thickness	9 mm



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Technical features

Product type: Porcelain stoneware – Class P1 (GL)

According to: ANSI A137.1

Technical characteristics	Test method	Value required for Porcelain Tile ANSI A137.1: Table 10	Average Values CRAFT
Water absorption	ASTM C373	$\leq 0.5\%$	Conforms
Breaking strength	ASTM C648	≥ 250 lbf	350 lbf
Surface abrasion resistance	ASTM C1027	As indicated by manufacturer	PEI 5 (Cotton, Yarn, Rope, Wool) PEI 4 (Quilt)
Linear thermal expansion	ASTM C372	not required	$\alpha \leq 4.4 \times 10^{-6} \text{ }^{\circ}\text{F}^{-1}$
Thermal shock resistance	ASTM C484	no sample must show visible signs	Conforms
Chemical resistance	ASTM C650	As indicated by manufacturer	A Resistant
Stain resistance	ASTM C1378	As indicated by manufacturer	A Resistant
Freeze/Thaw resistance	ASTM C1026	no sample must show visible signs	Resistant
Bond strength	ASTM C482	≥ 50 PSI (0.34 MPa)	Conforms
Crazing resistance	ASTM C424	As reported	Pass
Warpage edge	ASTM C485 Porcelain	Rectified: max $\pm 0.40\%$ or max ± 0.05 " up to 24x24"; max ± 0.07 " for tiles larger than 24x24"	Conforms
Warpage diagonal	ASTM C485 Porcelain	Rectified: max $\pm 0.40\%$ or max ± 0.07 "	Conforms
Nominal dimensions	ASTM C485 Porcelain	Rectified: -3.0%/+2.0% of nominal dimensions	Conforms
Caliber range	ASTM C485 Porcelain	Rectified: max $\pm 0.25\%$ or max ± 0.03 "	Conforms
Wedging	ASTM C502 Porcelain	Rectified: max $\pm 0.25\%$ or max ± 0.03 "	Conforms
Thickness	ASTM C499	Max range 0.040 inch (1.02 mm)	max ± 0.030 inch
Surface Hardness	Mohs Scale	As reported	Mohs 7
Dynamic Coefficient of Friction (DCOF)	ANSI A326.3	≥ 0.42 (internal wet environments)	≥ 0.42
Shade variation	ANSI A137.1	As indicated by manufacturer	V2
Flame spread	ASTM E84	-	Class A

